## AMENDMENTS TO THE CLAIMS

Please add new claims 37-40. Following is a complete listing of the claims pending in the application:

1. (Previously Presented) A memory device comprising:

a memory; and

a plurality of ports for accessing the memory of the memory device, each port having a bit serial communications link for receiving from and transmitting to an accessing device where bits of each symbol are received and transmitted serially, each port using a plesiosynchronous technique without transmitting a clock signal to receive symbols and using in-band symbols to transmit data and out-of-band symbols to transmit control information.

2. (Previously Presented) The memory device of claim 1 wherein each bit serial communications link is connected to an accessing device via a point-to-point connection.

3. (Previously Presented) The memory device of claim 1 wherein the plesiosynchronous technique oversamples data received via the bit serial communications link.

4. (Previously Presented) A memory device comprising:

a memory; and

a plurality of ports for accessing the memory of the memory device, each port having a serial communications link for receiving from and transmitting to an accessing device, each port using plesiosynchronous technique to receive symbols and using in-band symbols to transmit data and out-of-band symbols to transmit control information wherein each port includes a line

driver with a fixed driver portion and a variable driver portion for DC-balancing.

5. (Original) The memory device of claim 1 wherein the memory includes multiple banks and wherein multiple banks can be simultaneously accessed by different ports.

6. (Original) The memory device of claim 5 wherein each bank includes multiple sections and wherein the multiple sections can be simultaneously accessed by different ports.

7. (Original) The memory device of claim 1 wherein the memory includes a bank with multiple sections and wherein the multiple sections can be simultaneously accessed by different ports.

8. (Original) The memory device of claim 7 wherein the multiple sections of the bank are configurable on a port-by-port basis.

9. (Original) The memory device of claim 8 wherein the configuration information indicates to enable certain sections of the bank.

10. (Original) The memory device of claim 1 wherein the ports are connected to the memory using time-division multiplexing.

11. (Original) The memory device of claim 1 wherein the ports are connected to the memory using a crossbar switch.

12. (Original) The memory device of claim 1 wherein control information is transmitted as a primitive.

13. (Original) The memory device of claim 12 wherein a primitive includes two out-of-band symbols.

14. (Original) The memory device of claim 12 wherein control information includes a synchronization symbol.

15. (Original) The memory device of claim 1 wherein the plesiosynchronous technique includes inserting or removing symbols to compensate for variations between clock frequencies of the accessing device and the memory device.

16. (Original) The memory device of claim 1 wherein the ports share a single multiphase clock generator.

17. (Original) The memory device of claim 16 wherein the multiphase clock generator is a phase lock loop.

18. (Original) The memory device of claim 1 wherein an out-of-band symbol is a synchronization symbol that encodes a memory command.

19. (Previously Presented) A memory device comprising: a memory that reads and writes data; a multiphase clock generator that provides a multiphase clock signal; and a plurality of ports, each port for connecting to a bit serial communications link, where bits of each symbol are received and transmitted serially, and for receiving data and control information via the bit serial communications link using a plesiosynchronous technique without transmitting a clock signal, wherein each port uses the generated multiphase clock signal generated by the multiphase clock generator.

20. (Original) The memory device of claim 19 wherein data is sent using in-band symbols and control information is sent via out-of-band symbols.

21. (Previously Presented) The memory device of claim 19 wherein each bit serial communications link is connected to an accessing device via a point-to-point connection.

22. (Previously Presented) The memory device of claim 19 wherein the plesiosynchronous technique oversamples data received via the bit serial communications link.

23. (Previously Presented) A memory device comprising: a memory that reads and writes data; a multiphase clock generator that provides a multiphase clock signal; and a plurality of ports, each port for connecting to a serial communications link and for receiving data and control information via the serial communications link using a plesiosynchronous technique, wherein each port uses the generated multiphase clock signal generated by the multiphase clock generator and wherein each port includes a line driver with a fixed driver portion and a variable driver portion for DC-balancing.

24. (Original) The memory device of claim 19 wherein the memory includes multiple banks and wherein multiple banks can be simultaneously accessed by different ports.

25. (Original) The memory device of claim 24 wherein each bank includes multiple sections and wherein multiple sections can be simultaneously accessed by different ports.

26. (Original) The memory device of claim 19 including multiple sections and wherein multiple sections can be simultaneously accessed by different ports.

27. (Original) The memory device of claim 26 wherein the multiple sections are configurable on a port-by-port basis.

28. (Original) The memory device of claim 27 including the configuration information storage.

29. (Original) The memory device of claim 19 wherein the ports are connected to the memory using time-division multiplexing.

30. (Original) The memory device of claim 19 wherein the ports are connected to the memory using a crossbar switch.

31. (Original) The memory device of claim 19 wherein control information is transmitted as a primitive.

32. (Original) The memory device of claim 31 wherein a primitive includes two out-of-band symbols.

33. (Original) The memory device of claim 31 wherein control information includes a synchronization symbol.

34. (Original) The memory device of claim 19 wherein the plesiosynchronous technique includes inserting or removing symbols to compensate for variations between clock frequencies of the accessing device and the memory device.

35. (Original) The memory device of claim 19 wherein the multiphase clock generator is a phase lock loop.

36. (Original) The memory device of claim 19 wherein a synchronization symbol encodes a memory command.

37. (New) A propagated serial data signal conveying information between an accessing device and a memory device, the propagated serial data signal comprising:

an in-band symbol component for conveying data; and

an out-of-band symbol component for conveying control information, wherein the control information excludes a clock signal but includes a synchronization symbol to allow for the compensation of variations between clock frequencies of the accessing device and the memory device.

38. (New) The propagated serial data signal of claim 37 wherein the control information is conveyed as a primitive.

39. (New) The propagated serial data signal of claim 38 wherein the primitive comprises two symbols.

40. (New) The propagated serial data signal of claim 37 wherein the synchronization symbol encodes a memory command.